COFFS HARBOUR LABORATORY

Environmental Analysis

KEMPSEY SHIRE COUNCIL
BARRY YOUNG
P.O. BOX 78
WEST KEMPSEY NSW 2440

BATCH NUMBER: 22/1361
No. of SAMPLES: 12
DATE COLLECTED: 06/07/22
DATE RECEIVED: 06/07/22
TIME RECEIVED: 16:30
DATE TESTING COMMENCED: 06/07/22

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
22/1361/1	South Kempsey TP
22/1361/2	Crescent Head CW
22/1361/3	Gladstone TP
22/1361/4	Frederickton TP
22/1361/5	South West Rocks CW
22/1361/6	North St Final TP
22/1361/7	Hat Head C Well
22/1361/8	South Kempsey STP Head Wall Day Pond
22/1361/9	Upstream Gladstone TP
22/1361/10	Downstream Gladstone TP
22/1361/11	Upstream Frederickton TP
22/1361/12	Downstream Frederickton TP

ANALYSIS	UNITS	22/1361/1	22/1361/2	22/1361/3	22/1361/4	METHOD NO
pH	pH unit	7.0	7.0	7.7	7.6	APHA 4500-H+ B
Conductivity	µS/cm	-	582	-	-	APHA 2510 B
Turbidity	NTU	-	2.9	-	-	APHA 2130 B
Transmittance	%	-	-	54.3	-	APHA 5910
Total Dissolved Solids	mg/L	-	-	-	-	EL7B
Alkalinity	mg $CaCO_3$/L	-	-	-	-	APHA 2320 B
Total Suspended Solids	mg/L	21	4	17	4	APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	4	<2	<2	2	APHA 5210 B

NATA

Accredited for compliance with ISO/IEC 17025 - Testing
[Accreditation Numbers: 12359 (Chemical) & 14565 (Microbiological)]

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian and International standards.

ANALYSIS	UNITS	22/1361/1	22/1361/2	22/1361/3	22/1361/4	METHOD NO
Nitrate Nitrogen	mg/L	-	1.35	-	-	APHA 4500-NO3 I
Nitrite Nitrogen	mg/L	-	-	-	-	APHA 4500-NO 2
Ammonia Nitrogen	mg/L	3.95	2.60	0.39	1.23	APHA 4500-NH3 H
Total Nitrogen	mg/L	7.45	5.48	2.28	5.12	APHA 4500-P J
Total Phosphorus	mg/L	2.25	0.17	2.77	3.91	APHA 4500-P J
Oil & Grease	mg/L	<2	<2	<2	<2	EL23A
Chlorophyll-a	µg/L	-	-	4	3	APHA 10200 H
Potassium	mg/L	-	-	-	-	EL9A
Chloride	mg/L	-	-	-	-	EL10
Arsenic	mg/L	-	-	-	-	EL9A
Faecal Coliforms	cfu/100mL	6,800	0	2,300	9,800	ELM 3

ANALYSIS	UNITS	22/1361/5	22/1361/6	22/1361/7	22/1361/8	METHOD NO
pH	pH unit	6.8	7.2	7.4	-	APHA 4500-H+ B
Conductivity	µS/cm	478	-	1,030	-	APHA 2510 B
Turbidity	NTU	6.0	-	0.75	-	APHA 2130 B
Transmittance	%	-	-	-	-	APHA 5910
Total Dissolved Solids	mg/L	-	-	659	-	EL7B
Alkalinity	mg $CaCO_3$/L	39	-	172	-	APHA 2320 B
Total Suspended Solids	mg/L	12	12	4	-	APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	<2	7	<2	-	APHA 5210 B
Nitrate Nitrogen	mg/L	-	6.74	1.48	-	APHA 4500-NO3 I
Nitrite Nitrogen	mg/L	-	0.42	-	-	APHA 4500-NO 2
Ammonia Nitrogen	mg/L	0.02	9.19	<0.02	-	APHA 4500-NH3 H
Total Nitrogen	mg/L	6.29	18.2	2.19	-	APHA 4500-P J
Total Phosphorus	mg/L	0.80	0.76	0.10	-	APHA 4500-P J
Oil & Grease	mg/L	<2	<2	<2	-	EL23A
Chlorophyll-a	µg/L	-	6	-	-	APHA 10200 H
Potassium	mg/L	13	-	20	-	EL9A
Chloride	mg/L	74	-	107	-	EL10
Arsenic	mg/L	<0.012	-	-	-	EL9A
Faecal Coliforms	cfu/100mL	0	2,360	2	23,200	ELM 3

NATA

Accredited for compliance with ISO/IEC 17025 - Testing
[Accreditation Numbers: 12359 (Chemical) & 14565 (Microbiological)]

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian and International standards.

ANALYSIS	UNITS	22/1361/9	22/1361/10	22/1361/11	22/1361/12	METHOD NO
pH	pH unit	-	-	-	-	APHA 4500-H+ B
Conductivity	µS/cm	-	-	-	-	APHA 2510 B
Turbidity	NTU	-	-	-	-	APHA 2130 B
Transmittance	%	-	-	-	-	APHA 5910
Total Dissolved Solids	mg/L	-	-	-	-	EL7B
Alkalinity	mg $CaCO_3$/L	-	-	-	-	APHA 2320 B
Total Suspended Solids	mg/L	-	-	-	-	APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	-	-	-	-	APHA 5210 B
Nitrate Nitrogen	mg/L	-	-	-	-	APHA 4500-NO3 I
Nitrite Nitrogen	mg/L	-	-	-	-	APHA 4500-NO 2
Ammonia Nitrogen	mg/L	-	-	-	-	APHA 4500-NH3 H
Total Nitrogen	mg/L	-	-	-	-	APHA 4500-P J
Total Phosphorus	mg/L	-	-	-	-	APHA 4500-P J
Oil & Grease	mg/L	-	-	-	-	EL23A
Chlorophyll-a	µg/L	-	-	-	-	APHA 10200 H
Potassium	mg/L	-	-	-	-	EL9A
Chloride	mg/L	-	-	-	-	EL10
Arsenic	mg/L	-	-	-	-	EL9A
Faecal Coliforms	cfu/100mL	90	240	2,040	340	ELM 3

Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 23rd Edition, 2017, APHA. Raw data sheets stating analysis dates are available upon request.
Tests marked with '#' are not covered by NATA Accreditation.
Note: Microbiological results are membrane presumptive.
Measurement Uncertainty is available upon request.

Report Date: 14/07/22

NATA

Accredited for compliance with ISO/IEC 17025 - Testing
[Accreditation Numbers: 12359 (Chemical) & 14565 (Microbiological)]

The results of the tests, calibrations and/or measurements included in this document are traceable to Australia

Approved:

Shane Ewart
Technical Supervisor
Microbiology and Chemistry

Coffs Harbour City Council
Laboratory - 38 Gordon Street - Locked Bag 155 - Coffs Harbour - NSW - 2450 - Tel: (02) 6648 4460 - Fax (02) 6648 4466
www.chcc.nsw.gov.au - coffs.council@chcc.nsw.gov.au